宏 迦 橙
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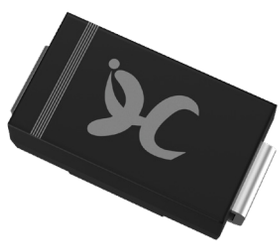
ES2A THRU ES2J

SURFACE MOUNT SUPER FAST RECOVERY RECTIFIER

Features

- Low profile package
- Ideal for automated placement
- Glass passivated pallet chip junction
- Super fast reverse recovery time
- Fast switching for high efficiency
- High forward surge capability

DO-214AC(SMA)

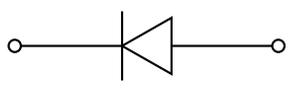


Applications

For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer, automotive, and telecommunication.

Mechanical Data

- Case: DO-214AC(SMA)
  Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Cathode line denotes the cathode end



Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J
Maximum repetitive peak reverse voltage	V_{RRM}	V	50	100	150	200	300	400	600
Maximum RMS Voltage	V_{RMS}	V	35	70	105	140	210	280	420
Maximum DC blocking Voltage	V_{DC}	V	50	100	150	200	300	400	600
Average rectified output current @60Hz sinewave, Resistance load,TL (Fig.1)	$I_{F(AV)}$	A	2.0						
Forward Surge Current (Nonrepetitive) @60HzHalf-sine wave,1 cycle, T=25°C	I_{FSM}	A	50.0						
Storage temperature	T_{stg}	°C	-55 ~+150						
Junction temperature	T_j	°C	-55 ~+150						
Typical Thermal Resistance	$R_{\theta J-A}$ (1)	°C /W	65						
	$R_{\theta J-L}$ (1)	°C /W	20						

Note : (1)Thermal resistance from junction to ambient and from junction tolead mounted on P.C.B.with 0.2"× 0.2"(5.0mm x5.0 mm) copper pad areas

Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	TEST CONDITIONS		SYMBOL	UNIT	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J
Maximum instantaneous forward voltage	I_F=2.0A		V_F	V	0.95				1.3		1.7
Maxinum reverse recovery time	I_F=0.5A,I_R=1.0A,I_{rr}=0.25A		T_{rr}	ns	35						
Maximum DC reverse currentat rated DC blocking voltage	V_{RM}=V_{RRM}	Ta=25°C	I_R	μA	5.0						
		Ta=125°C			100						
Typical junction capacitance	4.0V DC,1MHz		C_J	pF	31				17		12

Zhuhai Hongjiacheng Technology co., Ltd

Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)

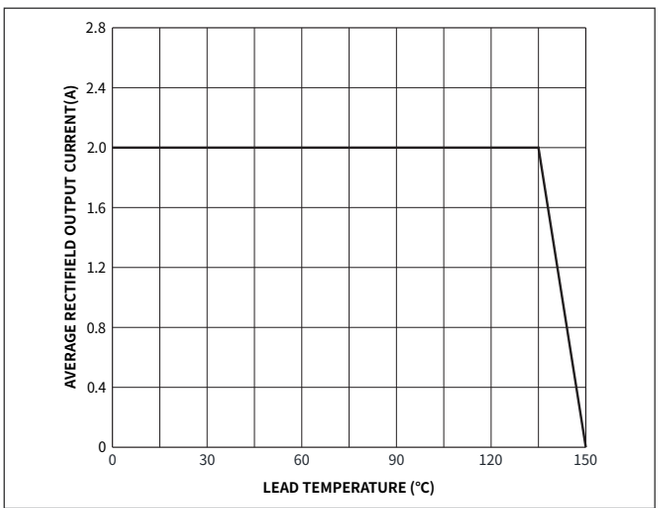


Fig. 1 Forward Current Derating Curve

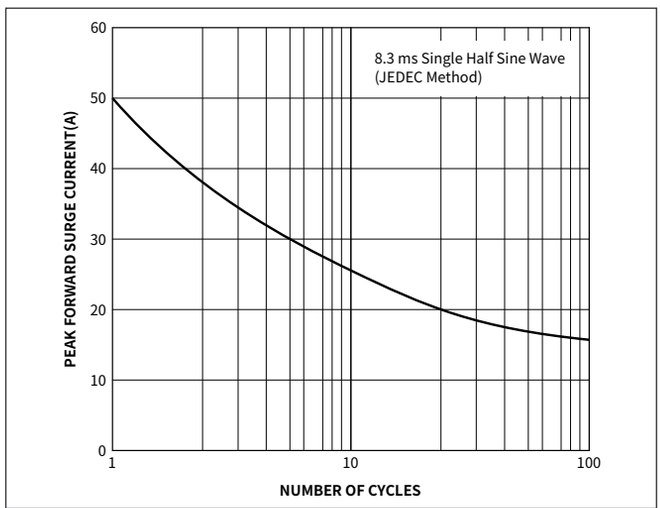


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

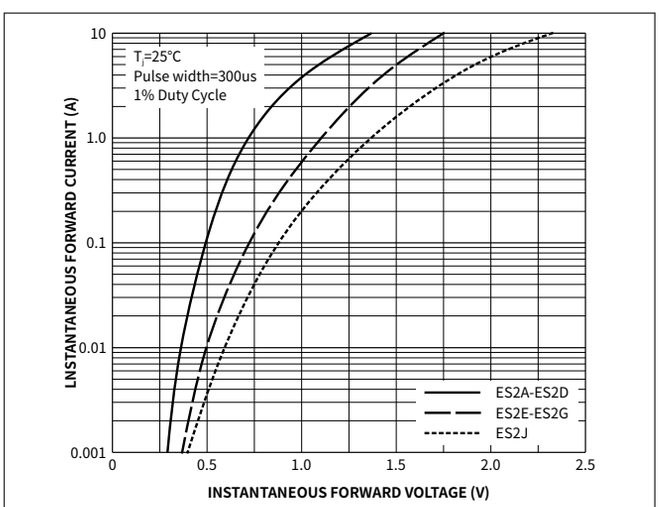


Fig.3 Typical Forward Voltage

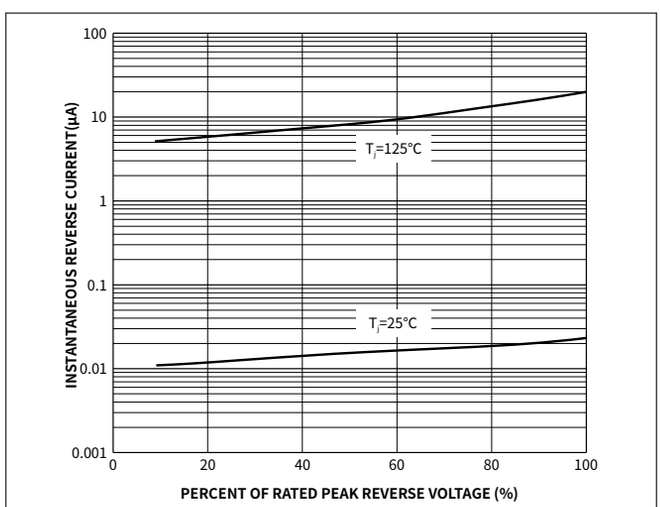
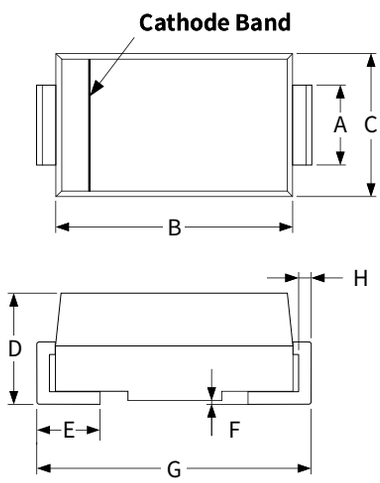


Fig.4 Typical Reverse Characteristics

Ordering Information

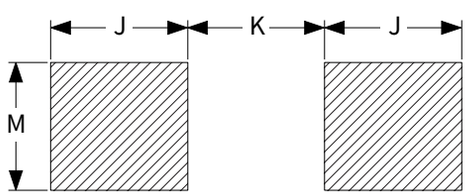
PACKAGE	PACKAGE CODE	UNIT WEIGHT(g)	REEL(pcs)	BOX(pcs)	CARTON(pcs)	DELIVERY MODE
SMA	R2	0.059	5000	10000	80000	11''
SMA	R3	0.059	7500	15000	120000	13''

Package Outline Dimensions (SMA/DO-214AC)



Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.25	1.65	0.049	0.065
B	3.95	4.65	0.156	0.183
C	2.35	2.85	0.093	0.112
D	1.98	2.41	0.078	0.095
E	0.76	1.52	0.030	0.060
F	-	0.203	-	0.008
G	4.70	5.30	0.185	0.209
H	0.15	0.31	0.006	0.012

Suggested Pad Layout



Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
M	1.70	-	0.067	-
J	2.10	-	0.082	-
K	-	2.30	-	0.090

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